VOLUME 32 CONTENTS

NUMBER 1

G. GERHARDSSON	1	The future of occupational hygiene—an international overview
S. M. RAPPAPORT and R. C. SPEAR	21	Physiological damping of exposure variability during brief periods
F. J. JONGENEELEN, R. B. M. ANZION, P. T. J. SCHEEPERS, R. P. BOS, P. TH. HENDERSON, E. H. NIJENHUIS, S. J. VEENSTRA, R. M. E. BROUNS and A. WINKES	35	1-Hydroxypyrene in urine as a biological indicator of exposure to polycyclic aromatic hydrocarbons in several work environments
G. K. GREENOUGH	45	Industrial dust control—the problems and some suggestions for improvement
J. B. KURTZ	59	*Legionella pneumophila*
J. M. SYKES and A. M. BRAZIER	63	Assessment and control of risks from Legionnaires' disease
D. R. MORGAN and J. DAWSON	69	Occupational health aspects of the Human Immunodeficiency Virus and AIDS
P. J. LEWIS and A. L. WRIGHT	83	Analysis of mercury in urine: operation of an external quality assurance scheme
R. N. HOOFTMAN, C. W. M. ARKESTEYN and P. ROZA	95	Cytotoxicity of some types of welding fume particles to bovine alveolar macrophages
F. F. CINKOTAI, D. SEABORN, C. A. C. PICKERING and E. FARAGHER	103	Airborne dust in the personal breathing zone and the prevalence of byssinotic symptoms in the Lancashire textile industry
L. C. KENNY	115	Automated analysis of asbestos clearance samples
P. COURBON, R. WROBEL and J.-F. FABRIES	129	A new individual respirable dust sampler: the CIP 10
Short Communication		
J. INGLE, D. G. JONES and J. J. W. SYKES	145	High airborne lead concentrations in a jobbing foundry
Conference Report		
J. MCK. ELLISON	147	Respiratory Protective Equipment: organized by the North-West Region of the BOHS and held at the Shell Thornton Research Centre on 25 February 1987
Book Reviews		
N. BARRACLOUGH	151	*The Health and Safety Directory 1987/88.* Edited and compiled by M. R. HASTINGS
R. I. MCCALLUM	151	*Early Detection of Occupational Disease.* Report of a WHO Scientific Group

Contents

NUMBER 2

M. BOENIGER, M. HAWKINS, P. MARSIN and R. NEWMAN	153	Occupational exposure to silicate fibres and PAHs during sugar-cane harvesting
D. HOLROYD, M. S. REA, J. YOUNG and G. BRIGGS	171	Health-related aspects of the devitrification of aluminosilicate refractory fibres during use as a high-temperature furnace insulant
A. DUFRESNE, G. PERRAULT, C. ROY, J. LAUZON, D. MICHAUD and M. BARIL	179	Characterization of ambient air contaminants from hot-dip galvanizing plants
W. K. DE RAAT and G. L. BAKKER	191	Induction of sister chromatid exchanges in Chinese hamster ovary cells by fume particles from various welding processes
S. VAINIOTALO and P. PFÄFFLI	203	Measurement of azodicarbonamide in workroom air in the plastics processing industry
M. HARPER and S. ROWLES	209	Occupational hygiene investigations on grossly contaminated building sites: some lessons drawn from recent experience
R. RIALA	215	Dust and quartz exposure of Finnish construction site cleaners
S. J. DUNNETT and D. B. INGHAM	221	The aspiration of non-spherical particles into a bulky sampling head
A. P. ROOD	237	Size distribution of airborne ceramic fibres as determined by transmission electron microscopy
P. HEIKKILÄ, M. KOTIMAA, T. TUOMI, T. SALMI and K. LOUHELAINEN	241	Identification and counting of fungal spores by scanning electron microscope
Short Communication		
H. F. THOMAS, J. H. ELWOOD and P. C. ELWOOD	249	Byssinosis in Belfast ropeworks: an historical note
Book Reviews		
M. J. DUGGAN	253	*NCRP Report No.* 91, *Recommendations on Limits for Exposure to Ionizing Radiation*
M. SHARRATT	253	*Environmental Health Criteria* 62: 1,2 *dichloroethane*
B. G. MILLER	254	*IARC Scientific Publications No.* 79: *Statistical Methods in Cancer Research. Volume III — The Design and Analysis of Long-term Animal Experiments.* By J. J. GART, D. KREWSKI, P. N. LEE, R. E. TARONE and J. WAHRENDORF
R. H. NEWMAN	255	*IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans. Volume* 42. *Silica and Some Silicates*
News Items		
GROUPEMENT POUR L'AVANCEMENT DES METHODES SPECTROSCOPIQUES ET PHYSICO-CHIMIQUES D'ANALYSE	257	5th French Annual Meeting on Aerosols
T. CARTER	257	International Occupational Hygiene Association
	i	New Patents

Contents

NUMBER 3

	259	F. S. Gill, President, The British Occupational Hygiene Society, 1988–1989
B. PONSFORD	261	Logic and practice in environmental pollution control
R. C. BROWN, D. WAKE, R. GRAY, D. B. BLACKFORD and G. J. BOSTOCK	271	Effect of industrial aerosols on the performance of electrically charged filter material
D. WAKE and R. C. BROWN	295	Measurements of the filtration efficiency of nuisance dust respirators against respirable and non-respirable aerosols
W. K. LAM, T. W. TSIN and T. P. NG	317	Radon hazard from caisson and tunnel construction in Hong Kong
R. G. DAVIDSON, M. J. EVANS, J. W. HAMLIN and K. J. SAUNDERS	325	Occuptional hygiene aspects of the use of oil-based drilling fluids
D. L. BARTLEY, M. L. WOEBKENBERG and J. C. POSNER	333	Performance of thick-sorbent diffusive samplers
W. R. MYERS, J. R. ALLENDER, W. ISKANDER and C. STANLEY	345	Causes of in-facepiece sampling bias—I. Half-facepiece respirators
W. R. MYERS and J. R. ALLENDER	361	Causes of in-facepiece sampling bias—II. Full-facepiece respirators
M. R. FLYNN and C. T. MILLER	373	Comparison of models for flow through flanged and plain circular hoods
B. PEDERSEN	385	Determination of hydrides of arsenic, antimony and tin in workplace air
A. MANNINEN	399	Analysis of airborne ammonia: comparison of field methods
B. ANDERSSON and K. ANDERSSON	405	Evaluation of commercial air sampling tubes for vinyl acetate
D. R. WALTERS and C. D. MONEY	411	Education and training in occupational hygiene in Europe: an example of Anglo–Hellenic co-operation
Short Communications		
B. JORDAN and J. T. PARSONS	419	Checking for leaks in Simpeds cyclones
S. BAILEY, A. CONCHIE, D. M. HIETT and C. THOMAS	423	Personal exposure to asbestos dust during clearance certification
Letters to the Editor		
G. KNIGHT	427	Letter to the Editor
A. SEBESTYEN, D. K. VERMA and D. C. F. MUIR	428	Authors' reply
J. J. MOULIN	430	Letter to the Editor

Contents

Book Reviews

P. BELLABY 431 *Psychosocial Factors at Work and Their Relation to Health.* Edited by R. KALIMO, M. A. EL-BATAWI and C. L. COOPER

R. H. NEWMAN 433 *Environmental Health Criteria* 53: *Asbestos and Other Natural Mineral Fibres.* World Health Organization, Geneva

R. HANCOX 434 *Environmental Health Criteria* 69: *Magnetic Fields.* World Health Organization, Geneva

E. KING 435 *Biological Monitoring of Exposure to Chemicals, Organic Compounds.* Edited by MAT H. HO and H. KENNETH DILLON

A. D. JONES and K. DONALDSON 438 *Inhaled Dust and Disease.* By PAUL F. HOLT

M. J. DUGGAN 440 *Indoor Radon and its Hazards.* Edited by D. BODANSKY, M. A. ROBKIN and D. R. STADLER

J. H. RENWICK 440 *Teratogens—Chemicals Which Cause Birth Defects.* Edited by V. K. MEYERS

R. H. NEWMAN 442 *IARC Scientific Publications No.* 74. *Tobacco—A Major International Health Hazard.* Edited by D. ZARIDZE and R. PETO *IARC Scientific Publications No.* 81. *Environmental Carcinogens: Methods of Analysis and Exposure. Vol.* 9: *Passive Smoking.* Edited by I. K. O'NEILL, K. D. BRUNNEMANN, B. DODET and D. HOFFMAN

i New Patents

NUMBER 4

J. A. PENDERGRASS 445 Safety and health co-operation in a changing world

A. M. JOHNSTON, G. W. HUGHSON and A. D. JONES 451 Experimental assessment of operator exposure by inspiration, for highly-charged droplets produced by an Electrodyn® crop sprayer

L. DORETTI, F. MADALOSSO, G. AUDISIO, A. ROSSINI and P. TRALDI 463 Gas-chromatography/mass spectrometry analysis of the pyrolysis products of fire retardant and intumescent paints

W. EDUARD and O. AALEN 471 The effect of aggregation on the counting precision of mould spores on filters

N. O. BREUM 481 Air exchange efficiency of displacement ventilation in a printing plant

B. D. THORNE and P. J. HEWITT 489 Chemical composition and particle morphology of brazing fume from cadmium brazing alloy and fluoroborate flux

M. BEHIZAD, R. H. CUMMING and F. J. ROWELL 499 An on-line detection system for aerosols of proteolytic enzymes

J. DE MEDINILLA and M. ESPIGARES 509 Contamination by organic solvents in auto paint shops

Review

J. LACEY and B. CROOK 515 Fungal and actinomycete spores as pollutants of the workplace and occupational allergens

Contents

BOHS Technology Committee Working Party on Dustiness Estimation	535	Progress in dustiness estimation
Short Communications		
M. P. Churchyard and G. K. E. Copeland	545	Is it really chrysotile?
E. H. N. Oakley, K. Baker and T. J. G. Mugridge	549	Protection of personnel during prolonged exposure to cold, wet environments
Conference Reports		
R. Rylander and R. Burrell	553	Endotoxins in Inhalation Research. Summary of conclusions of a workshop held at Clearwater, Florida, U.S.A., 28–30 September 1987
K. Sullivan and L. Waterman	557	Cadmium and Cancer: The Current Position. Report of an international meeting in London, September 1988
Book Reviews		
B. S. Bord	561	*Health Hazard Control in the Chemical Process Industry*. By Sidney Lipton and Jeremiah Lynch
M. Sharratt	562	*Control of Hazardous Materials in the Motor Industry* (1988). The Society of Motor Manufacturers and Traders Ltd
C. A. Soutar	563	*Work-related Lung Disorders*. By J. E. Cotes and I. Steel in collaboration with G. L. Leathart
J. McK. Ellison	564	*The Health and Safety Directory*, 1988/89. Edited by Margaret R. Hastings
	566	Other Books Received
	i	New Patents